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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,551	06/15/2005	Caspar M. T. Elbers	28211/40644	3897
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233 S. WACKEI	R DRIVE, SUITE 630	CHAN, SING P		
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,			1734	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

,	Application No.	Applicant(s)	
	10/517,551	ELBERS, CASPAR M. T.	
Office Action Summary	Examiner	Art Unit	
	Sing P. Chan	1734	
The MAILING DATE of this communication a Period for Reply	nppears on the cover sheet w	ith the correspondence ac	ddress
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are provided by the office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI: 1.136(a). In no event, however, may a solution of will apply and will expire SIX (6) MON tute, cause the application to become Af	CATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<u></u> .		
2a) This action is FINAL . 2b) ⊠ TI	nis action is non-final.		
3) Since this application is in condition for allow	vance except for formal mat	ters, prosecution as to the	e merits is
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-30</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	l/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)⊠ The drawing(s) filed on <u>15 June 2005</u> is/are:		ected to by the Examiner.	
Applicant may not request that any objection to the		•	
Replacement drawing sheet(s) including the corre	• • •	` '	FR 1.121(d).
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for forei	an priority under 35 U.S.C. &	\$ 119(a)-(d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	gri priority arider do 0.0.0.	; 113(a)-(a) or (1).	
1. Certified copies of the priority docume	ents have been received		
2. Certified copies of the priority docume		Application No	
3. ☐ Copies of the certified copies of the pr			Stane
application from the International Bure	·	TOOOTTOG IIT GIIS TYGGOTIGI	Olage
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,	received.	
Attachment(s)			
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 12/8/04.

6) Other: ___

DETAILED ACTION

Claim Objections

1. Claims 1, 3-5, 10, 11, 15, 16, 18, 20, and 22 are objected to because of the following informalities: In claim 1, line 2, "Including" should be "including," line 13, "Is" should be "is," in claim 3, line 3 "in-fine" should be "inline," in claim 4, "Is" should be "is," in claim 5, "In" should be "in," in claim 10, line 2, "Is" should be "is," in claim 11, "Is" should be "is," in claim 15, line 1, "In" should be "in," in claim 16, line 2, "In" should be "in," in claim 18, line 2, "Is" should be "is," in claim 20, line 1, "In" should be "in," in claim 22, line 14, "Is" should be "is." Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-12, 14, 16, 17-19, 21-26, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al (JP 02-72385) in view of Sinclair et al (U.S. 5,968,636).

Regarding claims 1-6, 8-10, 14, 16-19, and 21, Uchida et al discloses a method of forming an embossed hologram pattern. The method includes printing a hologram formation resin of a mixture of resin solution made of a nitrocellulose resin and a urethane resin, which is solvent-based (See English Translation of JP 02-72385, Page 3, lines 20-21), using a photogravure printing machine onto a polyester film, printing an

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opaque ink on the part of the film without the hologram resin using a photogravure printing machine, embossing the hologram resin using an embossing roller with hologram image, depositing an aluminum layer over the entire surface of the film, the hologram resin (See English Translation of JP 02-72385, Page 3, 17-32 and Figure 1-3), and the ink layer with at least the hologram resin layer being embossed (See English Translation of JP 02-72385). Uchida is silent as to the process is inline and continuously take place. However, forming hologram pattern inline and continuously is well known and conventional as shown for example by Sinclair et al. Sinclair et al discloses a method of forming a patterned laminate. The method includes providing printer and stations to produce the laminate in an inline process or stations, which form the require desire length of the laminate or in separate operations, i.e. batch wise processes, which are all functional equivalents. (Col 2, lines 59-65)

It would have been obvious to one of ordinary skill in the art at the time the invention was made provide the stations or process steps in an inline process as disclosed by Sinclair et al in the method of Uchida et al to form an aesthetically pleasing laminate with a continuous process or in separate operation (See Sinclair et al, Col 1, lines 35-42 and Col 2, lines 59-67), i.e. batch wise, which is all functional equivalents.

Regarding claim 7, Uchida et al discloses the ink or color layers are applied after the hologram layer (See English Translation of JP 02-72385), but is silent as to the applying the ink prior to applying hologram layer. However, applying the ink layer prior to applying the hologram layer is well known and conventional as shown for example by

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Sinclair et al. Sinclair et al discloses the ink layer is applied either after the application of the hologram layer or prior to hologram layer. (Col 2, lines 24-58)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to either print the ink layer after printing the hologram layer or prior to printing the hologram layer as disclosed by Sinclair et al in the method of Uchida et al to provide a means or any process of applying the ink layer to form a laminate, which is resistant to deleterious forces to mar the aesthetic quality. (See Sinclair et al, Col 1, lines 28-42)

Regarding claim 11, Uchida et al discloses using an embossing roller, which would repeat the embossed pattern, forms the hologram. (See English Translation of JP 02-72385)

Regarding claim 12, Uchida et al is silent as to reverse printing the ink layer or image and laminating a backing web of flexible sheet material. However, reverse printing the ink layer or image and laminating a backing web of flexible sheet material to the hologram composite film is well known and conventional as shown for example by Sinclair et al. Sinclair et al discloses the ink layer is reverse printing the ink layer or image on the film, which is transparent (Col 2, lines 40-45) and laminating a backing web of flexible sheet material to the composite film, which sandwich the hologram layer, the ink layer, and the metallized layer. (Col 2, lines 40-58)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to reverse printing the ink layer or image and laminating a backing web of flexible sheet material to the composite film as disclosed by Sinclair et al in the

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method of Uchida et al to provide a means to form a laminate, which is resistant to deleterious forces to mar the aesthetic quality. (See Sinclair et al, Col 1, lines 28-42)

Regarding claims 22-26, Uchida et al discloses an apparatus of forming an embossed hologram pattern. The apparatus includes printing a hologram formation resin using a photogravure printing machine onto a polyester film, printing an opaque ink on the part of the film without the hologram resin using a photogravure printing machine, embossing the hologram resin using an embossing roller with hologram image, depositing an aluminum layer over the entire surface of the film, the hologram resin (See English Translation of JP 02-72385, Page 3, 17-32 and Figure 1-3), and the ink layer with at least the hologram resin layer being embossed (See English Translation of JP 02-72385). Uchida is silent as to the apparatus or stations are inline and continuously take place. However, providing apparatus or stations for hologram pattern inline and continuously is well known and conventional as shown for example by Sinclair et al. Sinclair et al discloses an apparatus for forming a patterned laminate. The apparatus includes providing printer and stations to produce the laminate in an inline process, which form the require desire length of the laminate or in separate operations, i.e. batch wise processes, which are all functional equivalents. (Col 2, lines 59-65)

It would have been obvious to one of ordinary skill in the art at the time the invention was made provide the stations or process steps in an inline process as disclosed by Sinclair et al in the method of Uchida et al to an apparatus to form an aesthetically pleasing laminate with a continuous process or in separate operation (See

Sinclair et al, Col 1, lines 35-42 and Col 2, lines 59-67), i.e. batch wise, which is all functional equivalents.

Regarding claim 28, Uchida et al is silent as to provide a laminating station for laminating a backing web of flexible sheet material. However, providing a laminating station for laminating a backing web of flexible sheet material to the hologram composite film is well known and conventional as shown for example by Sinclair et al. Sinclair et al discloses the ink layer is reverse printing the ink layer or image on the film, which is transparent (Col 2, lines 40-45) and laminating a backing web of flexible sheet material to the composite film, which sandwich the hologram layer, the ink layer, and the metallized layer (Col 2, lines 40-58), which would require a laminating station.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a laminating station for laminating a backing web of flexible sheet material to the composite film as disclosed by Sinclair et al in the method of Uchida et al to provide a means to form a laminate, which is resistant to deleterious forces to mar the aesthetic quality. (See Sinclair et al, Col 1, lines 28-42)

4. Claims 13, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al (JP 02-72385) in view of Sinclair et al (U.S. 5,968,636) as applied to claims 1 and 22 above, and further in view of Pinchen et al (U.S. 6,196,383).

Regarding claim 13, Uchida et al as modified above is silent as to slitting the composite film with the hologram embossment and winding the composite film into a roll. However, slitting the composite film with the hologram embossment and winding the composite film into a roll is well known and conventional as shown for example by

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Pinchen et al. Pinchen et al discloses a method of forming a tear tape with holographic image. The method includes forming the hologram using embossing techniques to produce a plurality of longitudinally extending holographic images (Col 4, lines 20-25) and then slitting the tape longitudinally in registry with the holographic images and winding onto a reel (Col 5, lines 20-28).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a plurality of holograms longitudinally extending along a tape and then slitting the tape longitudinally in registry with the holographic images and winding onto a reel as disclosed by Pinchen et al in the method of Uchida et al as modified by Sinclair et al to provide a simple technique to allow for holograms to be applied to goods and other substrates. (See Pinchen et al, Col 1, lines 51-53)

Regarding claims 29 and 30, Uchida et al as modified above is silent as to providing a slitting station to slit the composite film with the hologram embossment and winding the composite film into a roll. However, slitting the composite film with the hologram embossment and winding the composite film into a roll is well known and conventional as shown for example by Pinchen et al. Pinchen et al discloses a method of forming a tear tape with holographic image. The method includes forming the hologram using embossing techniques to produce a plurality of longitudinally extending holographic images (Col 4, lines 20-25) and then slitting the tape longitudinally in registry with the holographic images and winding onto a reel (Col 5, lines 20-28), which would required to provide a slitting station and a winding station to slit and wind the tape.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a plurality of holograms longitudinally extending along a tape and then providing slitting stations to slit the tape longitudinally in registry with the holographic images and a winding station to wind the tape onto a reel as disclosed by Pinchen et al in the apparatus of Uchida et al as modified by Sinclair et al to provide a simple technique to allow for holograms to be applied to goods and other substrates. (See Pinchen et al, Col 1, lines 51-53)

5. Claims 15 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al (JP 02-72385) in view of Sinclair et al (U.S. 5,968,636) as applied to claims 14 and 22 above, and further in view of Murphy (U.S. 5,055,343).

Regarding claim 15, Uchida et al as modified above is silent as to the metal coating is deposited by vacuum deposition. However, depositing metal coating onto transparent film using vacuum deposition is well known and conventional as show for example by Murphy. Murphy discloses depositing aluminum using vacuum deposition onto an acrylic film. (Col 5, lines 64-66)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to deposit aluminum using vacuum deposition onto a acrylic film as disclosed by Murphy in the method of Uchida et al as modified by Sinclair et al to provide an improved decorative film with a long life even when used in outdoor application. (See Murphy, Col 2, lines 9-13)

Regarding claim 27, Uchida et al as modified above is silent as to the metal coating is deposited by vacuum deposition station. However, depositing metal coating

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onto transparent film using vacuum deposition is well known and conventional as show for example by Murphy. Murphy discloses depositing aluminum using vacuum deposition onto an acrylic film (Col 5, lines 64-66), which would requires a vacuum deposition station.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a vacuum deposition station to deposit aluminum using vacuum deposition onto a acrylic film as disclosed by Murphy in the method of Uchida et al as modified by Sinclair et al to provide an improved decorative film with a long life even when used in outdoor application. (See Murphy, Col 2, lines 9-13)

6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al (JP 02-72385) in view of Sinclair et al (U.S. 5,968,636) as applied to claim 19 above, and further in view of Gili Picov (U.S. 5,318,807).

Uchida et al as modified above is silent as to the embossing cylinder forms part of the printing press. However, providing the embossing cylinder as part of the printing press is well known and conventional as shown for example by Gili Picoy. Gili Picoy discloses forming a printed sheet with optical effect. The method includes applying the thermoplastic resin to the paper at the same the composite is delivered to the calendar (18) or embossing roll (Col 4, lines 48-54), which requires the embossing roll as part of the printing press.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the embossing roll as part of the printing or coating press

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as disclosed by Gili Picoy in the method of Uchida et al as modified by Sinclair et al to reduce process time. (Col 4, lines 53-54)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sing P. Chan whose telephone number is 571-272-1225. The examiner can normally be reached on Monday-Thursday 7:30AM-11:00AM and 12:00PM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher A. Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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CHRIS FICHILLA SUPERVISORY PATENT EXAMINER

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